

**Summary of Benefits and Impacts From Surface Discharge
of CBM Produced Water
(Broad Categories)**

Benefits	Impacts
Irrigation	Bottomland vegetation composition
Livestock and wildlife watering	Soil salinity and sodicity
Aquatic resource habitat creation	Bottomland agricultural operations
Wetland creation	Stream channel morphology
Municipal water supply	Aquatic resources (habitat modification)
Augmented Water Supply in areas of Need	Downstream water quality and quantity (non – WYPDES)